

ABSTRACT OF THE DISCLOSURE

HUB DRIVE SYSTEM

A hub drive has a tubular housing suspended in a vehicle, and a motor in one, inboard end of the housing, and a gearbox in the other end. A hub is driven by the gearbox and is journaled on the housing. A gallery is defined between the motor and housing to receive lubricant from an external connector to cool the motor before delivery via a passage to a rotor of the motor, and thence to the gearbox to lubricate the gearbox. The drive is dismantlable without removal of the vehicle wheel, from the open ends of the housing. A gear change mechanism permits minimisation of the motor while still providing a wide range of torque and speed capability.